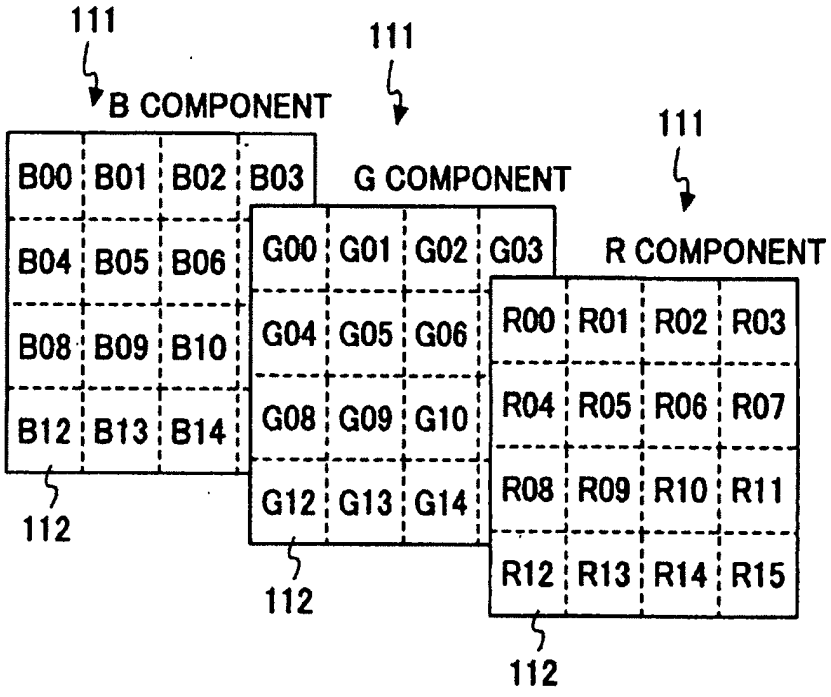
FIG.1

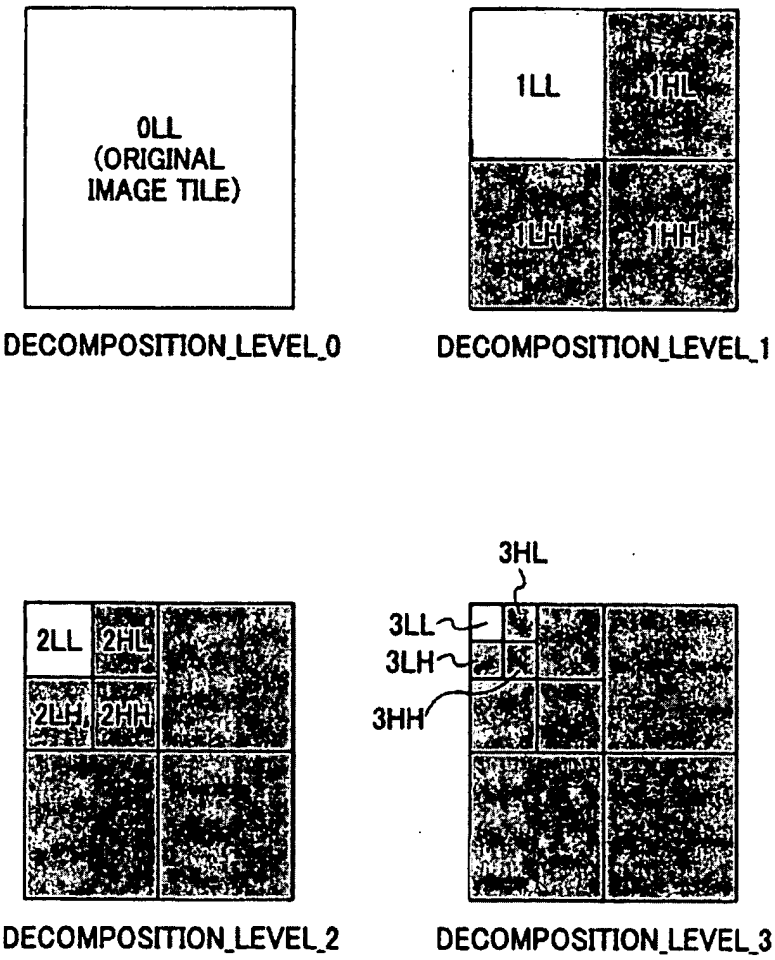
PRIOR ART

FIG.2



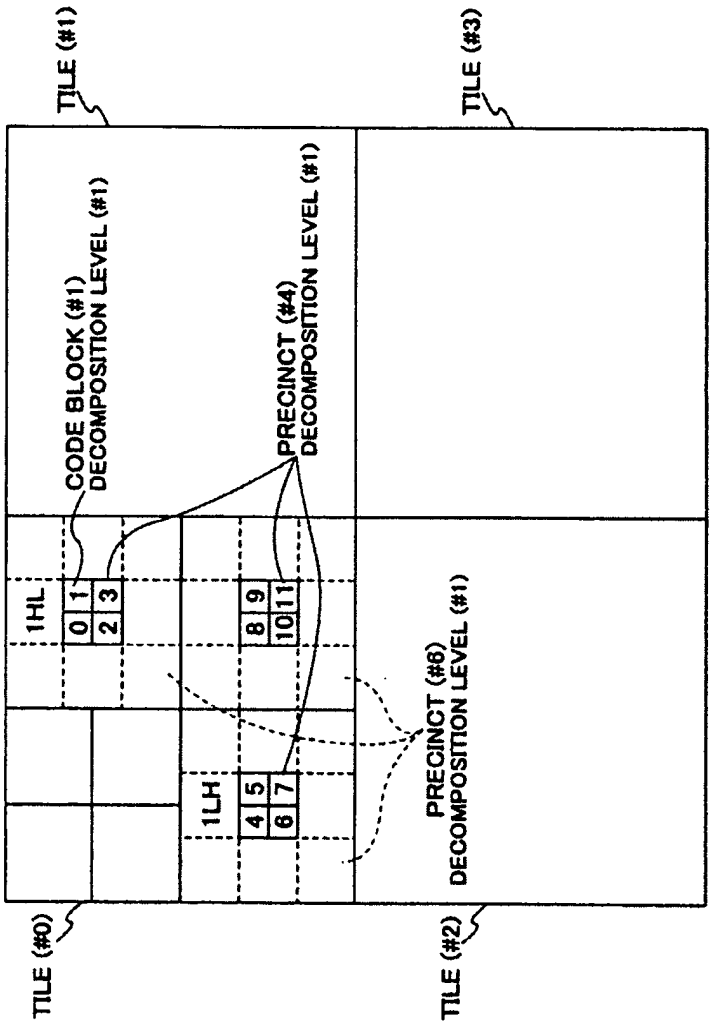
PRIOR ART

FIG.3



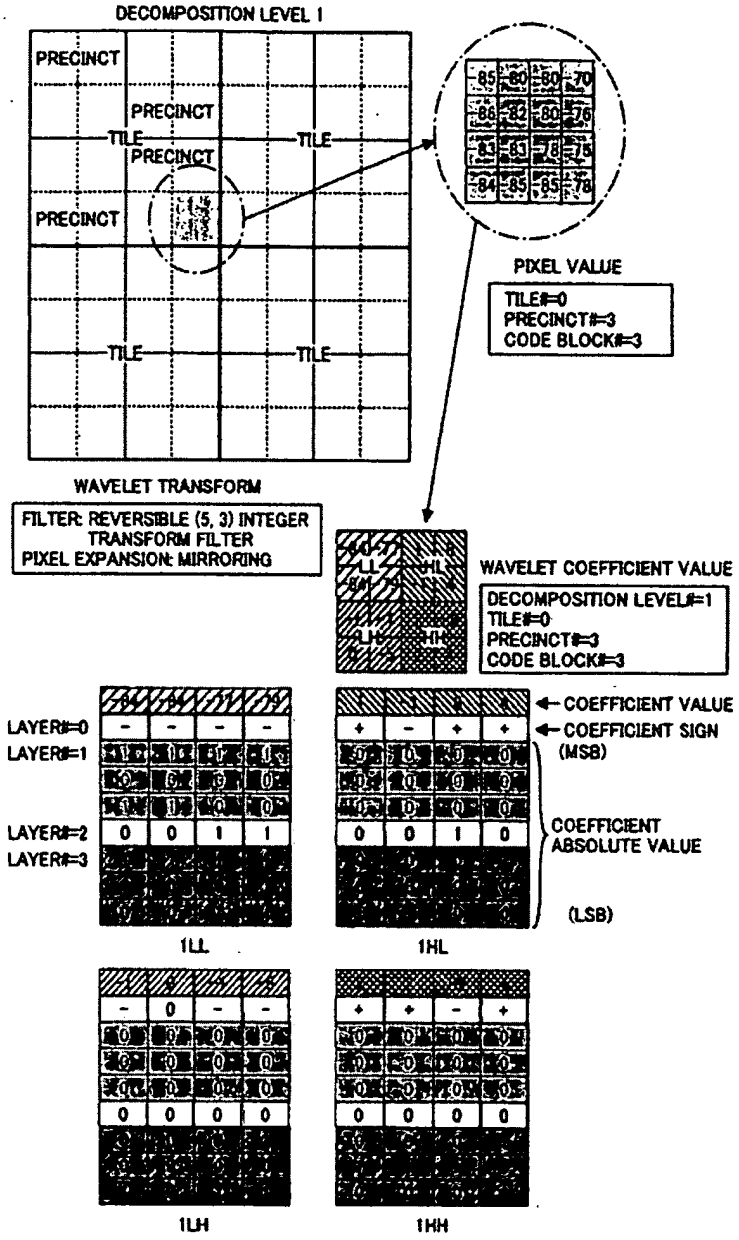
PRIOR ART

FIG.4



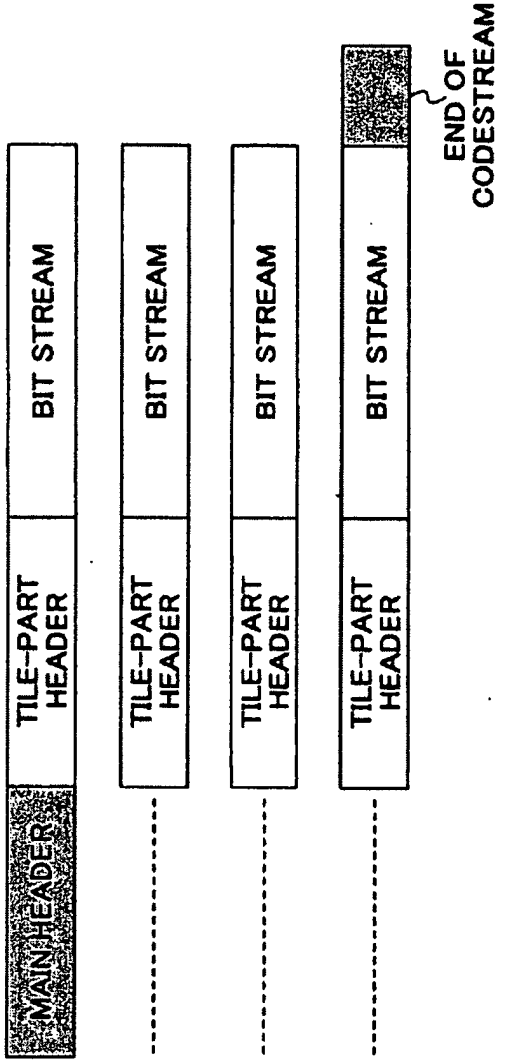
PRIOR ART

FIG.5



PRIOR ART

FIG.6



PRIOR ART

FIG.7

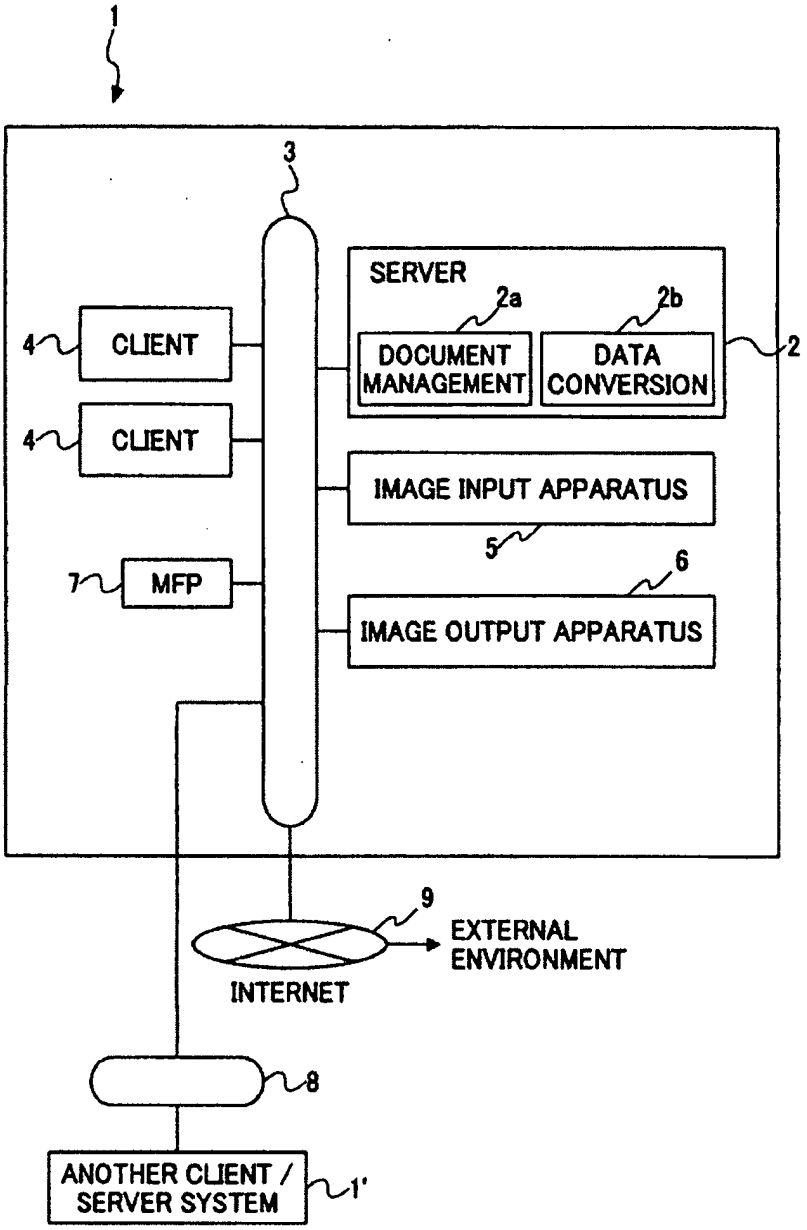

1
3
SERVER
2a
2b
DOCUMENT MANAGEMENT
DATA CONVERSION
2
4
CLIENT
4
CLIENT
IMAGE INPUT APPARATUS
5
7
MFP
6
IMAGE OUTPUT APPARATUS
9
EXTERNAL ENVIRONMENT
INTERNET
8
ANOTHER CLIENT / SERVER SYSTEM
1'

FIG.8

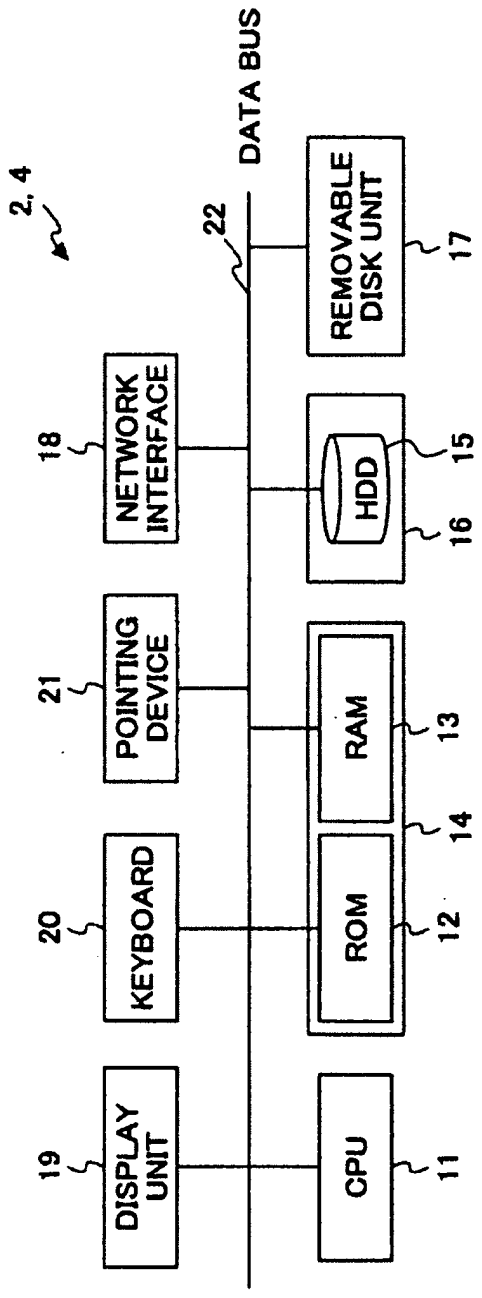

2, 4
DATA BUS
22
REMOVABLE DISK UNIT
17
NETWORK INTERFACE
18
HDD
15
16
POINTING DEVICE
21
RAM
13
14
KEYBOARD
20
ROM
12
DISPLAY UNIT
19
CPU
11

FIG.9

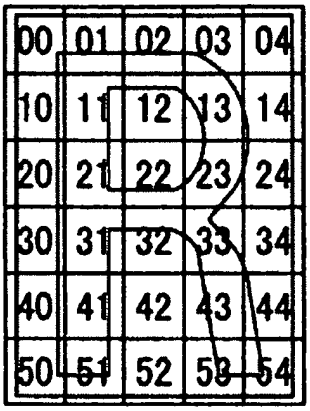

00 01 02 03 04
10 11 12 13 14
20 21 22 23 24
30 31 32 33 34
40 41 42 43 44
50 51 52 53 54

FIG.10

SOC
MH
00
01
02
03
04
10
11
12
13
14
20
21
22
23
24
30
31
32
33
34
40
41
42
43
44
50
51
52
53
54
EOC

FIG.11

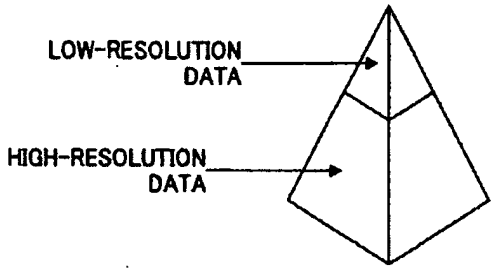

LOW-RESOLUTION DATA
HIGH-RESOLUTION DATA

FIG.12

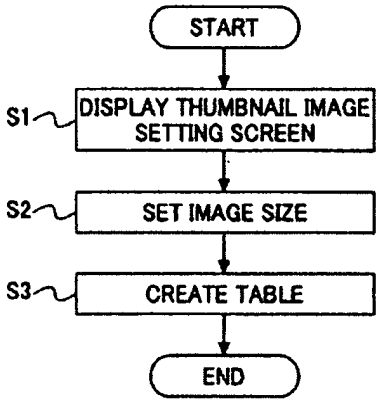

START
S1
DISPLAY THUMBNAIL IMAGE SETTING SCREEN
S2
SET IMAGE SIZE
S3
CREATE TABLE
END

FIG.13

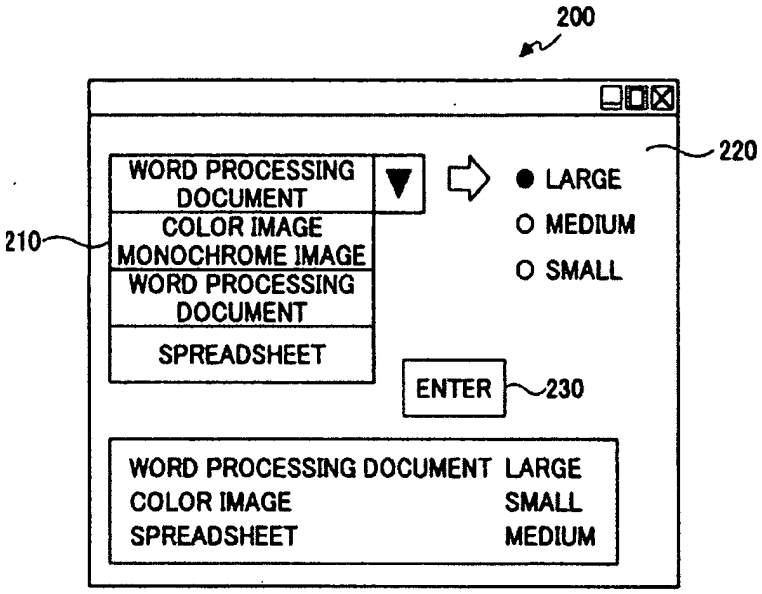
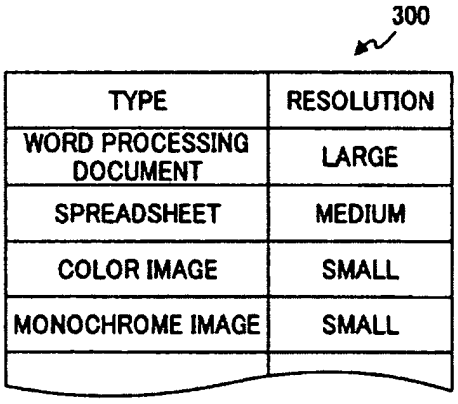


FIG.14



TYPE	RESOLUTION
WORD PROCESSING DOCUMENT	LARGE
SPREADSHEET	MEDIUM
COLOR IMAGE	SMALL
MONOCHROME IMAGE	SMALL

FIG.15

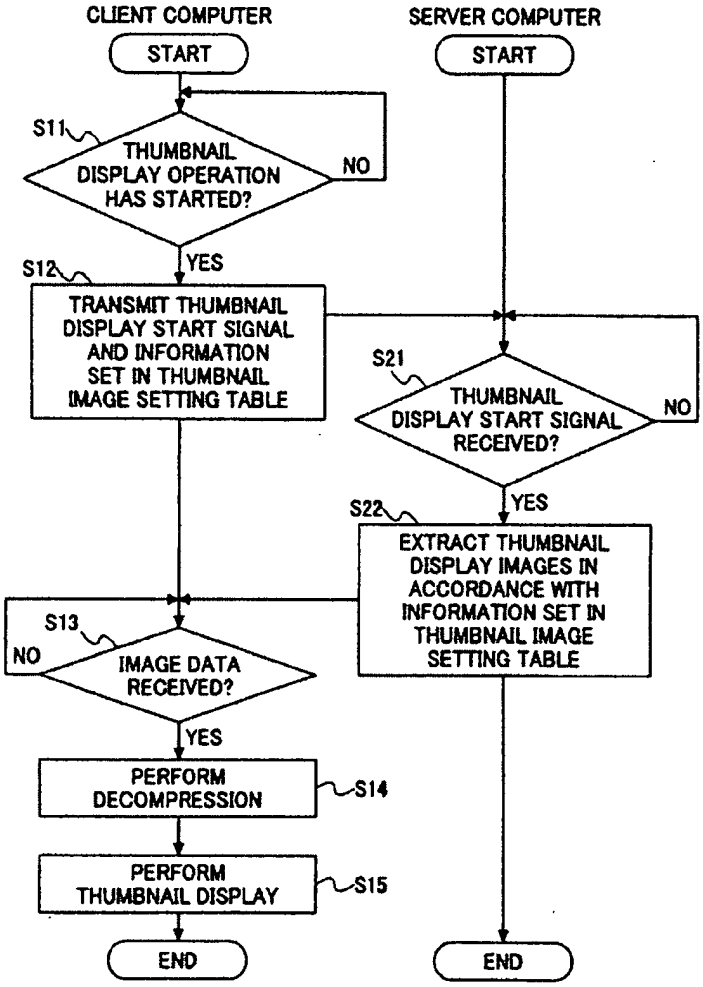

CLIENT COMPUTER
SERVER COMPUTER
START
START
S11
THUMBNAIL DISPLAY OPERATION HAS STARTED?
NO
YES
S12
TRANSMIT THUMBNAIL DISPLAY START SIGNAL AND INFORMATION SET IN THUMBNAIL IMAGE SETTING TABLE
S21
THUMBNAIL DISPLAY START SIGNAL RECEIVED?
NO
YES
S22
EXTRACT THUMBNAIL DISPLAY IMAGES IN ACCORDANCE WITH INFORMATION SET IN THUMBNAIL IMAGE SETTING TABLE
S13
NO
IMAGE DATA RECEIVED?
YES
PERFORM DECOMPRESSION
S14
PERFORM THUMBNAIL DISPLAY
S15
END
END

FIG.16

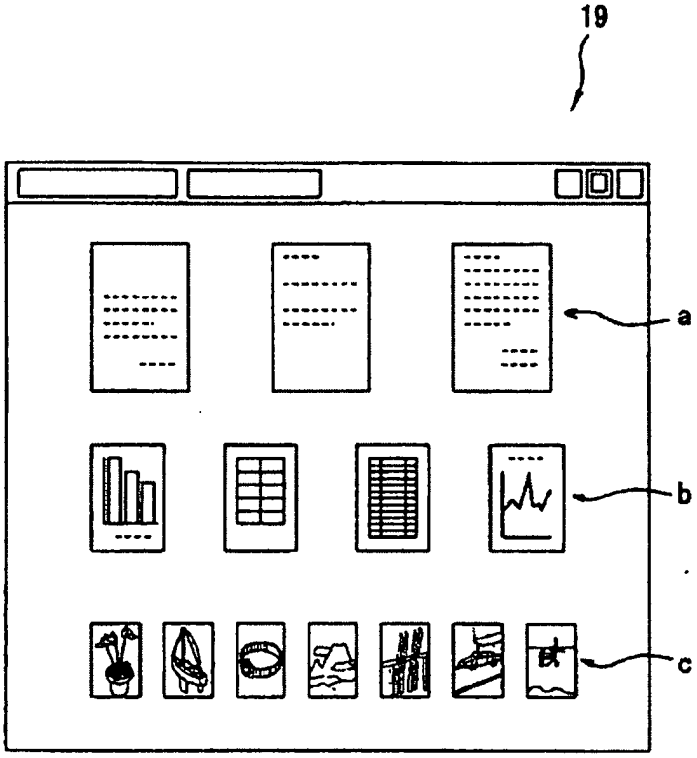
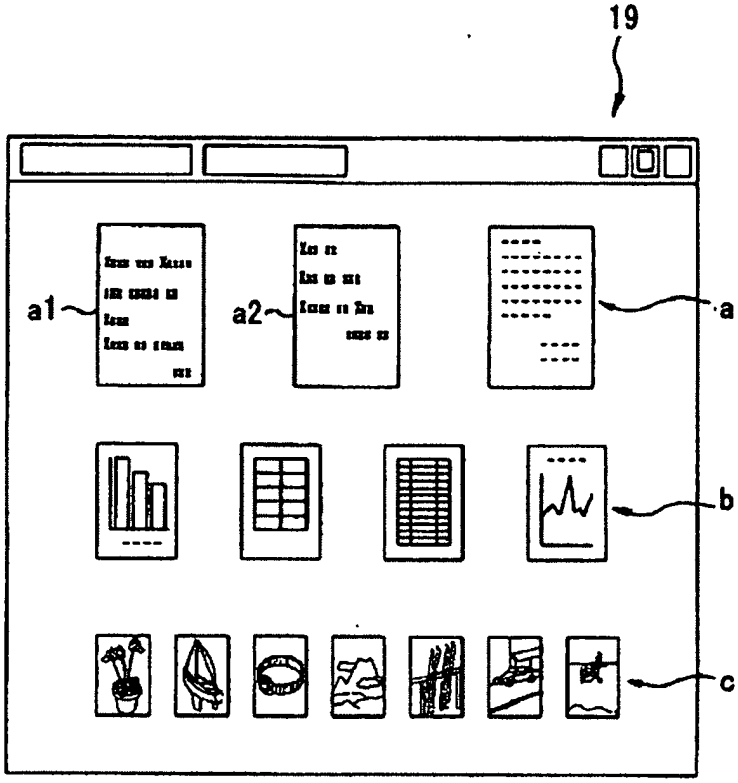



FIG.17